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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,583	08/09/2001	Vivek Kashyap	AUS920010470US1	2957

7590

08/24/2005

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EXAMINER
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HAILE, FEBEN

ART UNIT	PAPER NUMBER
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2663

DATE MAILED: 08/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/925,583

Applicant(s)

KASHYAP ET AL.

Examiner

Feben M. Haile

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 5-8, 13-16 and 19 is/are allowed.
- 6) ☒ Claim(s) 1, 9 and 17 is/are rejected.
- 7) ☒ Claim(s) 2-4, 10-12 and 18 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Response to Amendment*

1. In view of applicant's amendment filed June 15, 2005, the status of the application is still pending with reference to claims 1-19.

2. The amendment filed is insufficient to overcome the rejection of claims 1, 9, 17 and objection of claims 2-4, 10-12, and 18 based upon the last Office action because:

Regarding claims 1-4, 9-12, 17-18, there was no changes made that further limit the scope of the claims, therefore the subject matter is not patentable over the prior art of record.

3. The amendment filed is sufficient to overcome the rejection of claims 5, 13, and 19 and the objection of claims 6-8 and 14-16.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 9, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Avery (US 6,611,883).

**Regarding claims 1, 9, and 17,** Avery discloses compiling a queue-pair-number map, wherein the map associates unique queue pair numbers with services hosted by network nodes (**column 9 lines 46-56; in an address map, a particular work queue entry is identified by a queue pair pointer**); receiving a service request from a client (**column 2 lines 40-51; host and I/O devices have work queues that send and receive instructions that specify a process**); looking up the queue pair number associated to the requested service (**column 11 lines 4-14; these requests are processed using the queue entries**); and replying to the client wherein the reply includes: the address of the node hosting the requested service; and the queue pair number associated with the requested service (**column 11 lines 17-32; when a response is received, the process updates the address**).

***Allowable Subject Matter***

5. Claims 5-8, 13-16, and 19 are allowed. The following is a statement of reasons for the indication of allowable subject matter:

**Regarding claims 5, 13, and 19,** the prior art of record fails to disclose or fairly suggest associating a service hosted by the node with a well-known queue pair number, wherein the well-known queue pair number corresponds to at least one well-known port in the node.

6. Claims 2-4, 10-12, 14-16, and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

7. Applicant's arguments filed June 15, 2005, with regards to claims 1-4, 9-12, and 17-18, have been fully considered but they are not persuasive.

On page 8, applicant respectfully traverses that Avery does not teach or suggest a queue-pair number map that associates queue pair numbers with services hosted by network nodes. Examiner respectfully disagrees with applicant. Avery discloses that host devices use the queues to send and receive instructions that specify a process **(column 2 lines 40-51)**. Avery further teaches that queue entries are used for the mapping of address space **(column 8 lines 37-40)**

On page 8, applicant respectfully traverses that Avery does not teach or suggest how the host channel determines the queue pair numbers. Examiner respectfully disagrees with applicant. Avery discloses that a source channel adapter (host channel) interprets a work queue entry and sends the message to a destination channel adapter (target channel) **(column 6 lines 49-57)**.

On page 9, applicant respectfully traverses that Avery does not teach that the Infiniband address map is used by a client to look up a queue number of a service. Examiner respectfully disagrees with applicant. Avery discloses that a host uses the mapping of addresses into an Infiniband by queue pairs **(column 8 lines 37-42)**. Avery further teaches that host devices use the queues to send and receive instructions that specify a process **(column 2 lines 40-51)**.

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8. Applicant's arguments, see pages 9-10, filed June 15, 2005, with respect to claims 5-8, 13-16, and 19 have been fully considered and are persuasive. The rejection of claims 5, 13, and 19 and the objection of claims 6-8 and 14-16 have been withdrawn..

***Conclusion***

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

a) Shah et al. (US 6,810,418), Method and Device for Accessing Service Agents on Non-Subnet Manager Hosts in an Infiniband Subnet

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.


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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Feben M. Haile whose telephone number is (571) 272-3072. The examiner can normally be reached on 6:00am - 3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JH 08/22/2005

  
RICKY NGO  
PRIMARY EXAMINER  
8/22/05